88888888888 888888888888 888888888888	В	AAAAAAA AAAAAAA AAAAAAA	4	\$	RRRR	RRRRRRR RRRRRRR RRRRRRRR		
888	BBB	ÄÄÄ	AAA	\$\$\$ \$\$\$	RRR	RRR RRR		LLL
888	888	AAA	AAA	SSS	RRR	RRR	ΪΪΪ	
888	888	ÄÄÄ	AAA	SSS	RRR	RRR	İİİ	
BB B	BBB	AAA	AAA	ŠŠŠ	RRR	RRR	ήήή	LLL
888	BBB	AAA	AAA	SSS	RRR	RRR	ŤŤŤ	iii
8888888888	В	AAA	AAA	SSSSSSSS		RRRRRRR	ŤŤŤ	ili
8888888888		AAA	AAA	ŠŠŠŠŠŠŠŠŠ		RRRRRRR	ŤŤŤ	iii
8888888888		AAA	AAA	SSSSSSSS		RRRRRRR	TTT	ΙΙΙ
BBB	888			\$\$\$	RRR	RRR	TTT	LLL
888	888	*********		ŞŞŞ	RRR	RRR	ŢŢŢ	LLL
888	BBB			SSS	RRR	RRR	ŢŢŢ	LLL
88 8	BBB	AAA	AAA	SSS	RRR	RRR	ŢŢŢ	řřř
888	888	AAA	AAA	SSS	RRR	RRR	ŢŢŢ	iřř
888	BBB	AAA	AAA	222	RRR	RRR	ŢŢŢ	LLL
88888888888888888888888888888888888888		AAA	AAA	\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR	RRR	ŢŢŢ	rrrrrrrrrrr
BBBBBBBBBBB		AAA	AAA	\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR	RRR	!!!	
00000000000	0	AAA	AAA	SSSSSSSSSS	RRR	RRR	TTT	

88 88 88 88 88 88		\$\$ \$\$ \$\$ \$\$
88 88888888 88888888		\$
		\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$ \$\$ \$\$ \$\$
		\$\$ \$\$\$\$\$\$ \$\$\$\$\$\$ \$\$ \$\$
		\$\$ \$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$

BBBBBBBB BBBBBBBB BB BB BB BB BB BB BBBBBB	AAAAAA AAAAAA AA AA AA AA AA AA	\$		NN NN NN NN NN NN NN NN NNNN NN NNNN NN NNNN NN NN NN		DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	\$
BB BB BB BB BB BB BB BB BBBBBBBB BBBBBBB	AAAAAAAA AA AA AA AA AA AA	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	II II II IIIII IIIIII	NN NNNN NN NNN NN NN NN NN NN NN	II II II IIIII IIIII	DD	FF FF FF FF	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$

```
0002
                0004
                0005
                0006
                0007
                8000
                0009
10
                0010
11
                0011
12 13 14 15
                0012
                0014
                0015
16
                0016
                0017
                0018
0019
                0020
                0021
                0022
                0024
                0025
                0026
                0027
                0028
                0029
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               0038
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                0040
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               0042
                0044
                0045
               0046
0047
                0048
                0049
                0050
                0051
                0052
0053
                0054
0055
                0056
0057
```

```
O MODULE BASSINIT_DFS (
                                                                   ! Initialize DEF* frame
! File: BASINIDFS.B32
                        IDENT = '1-005'
                        ) =
```

2

BEGIN

1.

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FACILITY: BASIC-PLUS-2 frame Support

ABSTRACT:

These routines set up and tear down frames for BASI(-PLUS-2. Frames are used for main routines, external functions, external subroutines, internal functions (both DEFs and DEF*s) internal subroutines (GOSUBs) and condition handlers.

ENVIRONMENT: VAX-11 user mode

AUTHOR: John Sauter, CREATION DATE: 10-Oct-78

MODIFIED BY:

1 !

: VERSION

1-001 - Original. Just a skeleton.
1-002 - Change LIB\$S and OTS\$S to STR\$. This routine is still not

implemented. JBS 21-MAY-1979 1-003 - finally, code this routine, based on BAS\$INIT_DEF.

JBS 03-AUG-1979

1-004 - Remove BAS\$K_WROMATPAC, not used. JBS 19-SEP-1979

! 1-005 - fix a comment. JBS 07-NOV-1979

I 2 16-Sep-1984 00:36:03 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 11:55:07 [BASRTL.SRC]BASINIDFS.B32;1

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; 58

0058 1 !<BLF/PAGE>

```
VAX-11 Bliss-32 V4.0-742 [BASRTL.SRC]BASINIDFS.B32;1
                  0059 1
                  0060 1 !
                               SWITCHES:
2345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678900
                  0061 1 !
                  0062
                            SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
                  0064
                  0065
                  0066
                        1 ! LINKAGES:
                  0067
                  0068
                  0069
                         1 LINKAGE
                                  BASSINIT_LINK = JSB (REGISTER = 0, REGISTER = 1, REGISTER = 2) : !
GLOBAL (BSF$A_MAJOR_STG = 11, BSF$A_MINOR_STG = 10, BSF$A_TEMP_STG = 9)
NOPRESERVE (8, 7, 6, 5, 4, 3, 2, 1, 0);
                  0070
                  0071
                  0072
                  0074
                  0075
                               TABLE OF CONTENTS:
                  0076
                  0077
                  0078
                          1 FORWARD ROUTINE
                  0079
                                  BASSINIT_DFS_R8 : NOVALUE BASSINIT_LINK;
                                                                                              ! start DEF*
                  0800
                  0081
                  0082
                               INCLUDE FILES:
                  0083
                  0084
                  0085
                            REQUIRE 'RTLIN:RTLPSECT':
                                                                                              ! macros for defing psects
                  0180
                  0181
                            REQUIRE 'RTLIN: BASFRAME':
                                                                                              ! Define frame structure
                  0384
                  0385
                            REQUIRE 'RTLIN:BASINARG';
                                                                                              ! Define argument list
                  0469
                  0470
                            LIBRARY 'RTLSTARLE';
                                                                                              ! System symbols
                  0471
                 0472
0473
                               MACROS:
                  0475
                                       NONE
                  0476
                  0477
                               EQUATED SYMBOLS:
                  0478
                  0479
101
                                       NONE
102
103
104
105
                  0480
                  0481
                               PSECTS:
                  0482
0483
                            DECLARE_PSECTS (BAS);
                                                                                             ! declare psects for BAS$ facility
106
107
108
109
110
111
112
113
114
                  0484
                  0485
                               OWN STORAGE:
                  0486
                  0487
                                        NONE
                 0488
0489
0490
0491
0492
0493
0494
                               EXTERNAL REFERENCES:
                            EXTERNAL ROUTINE
BAS$$SIGNAL: NOVALUE,
                                                                                              ! signals error
                                                                                              ! deallocates one string
                                  STRSFREE1_DX,
```

BASSINIT_DFS 1-005		K 2 16-Sep-1984 00:36:03 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 11:55:07 [BASRTL.SRC]BASINIDFS.B32;1
: 117 : 118 : 119	0495 1 BAS\$HANDLER; 0496 1 0497 1 !+	! handles signals
120 121 122	0498 1 ! The following are the error codes u 0499 1 !- 0500 1	sed in this module.
: 125 : 124 : 125 : 126	0501 1 EXTERNAL LITERAL 0502 1 BAS\$K_TOOFEWARG : UNSIGNED (8), 0503 1 BAS\$K_TOOMANARG : UNSIGNED (8), 0504 1 BAS\$K_SCAFACINT : UNSIGNED (8),	! Too few arguments ! Too many arguments ! Scale factor interlock
117 118 119 120 121 122 123 124 125 126 127 128 129 130	0505 1 BAS\$K_PROLOSSOR : UNSIGNED (8), 0506 1 BAS\$K_ARGDONMAT : UNSIGNED (8), 0507 1 BAS\$K_NOTIMP : UNSIGNED (8); 0508 1	Program lost, sorry Arguments don't match Not implemented

Page 4

```
132
133
134
135
136
137
                           GLOBAL ROUTINE_BAS$INIT_DFS_R8 (
                 0509
                                                                                           start DEF*
                 0510
                                     ARGLIST
                                                                                            frame parameters
                 0511
                                     DATA_RELOC
                                                                                          ! start of data
                 0512
                                ) : NOVACUE BASSINIT_LINK =
                 0514
138
139
                             FUNCTIONAL DESCRIPTION:
                 0516
0517
140
                                     Set up a frame for a BASIC-PLUS-2 DEF*. The frame is allocated on the stack, and R10 and R9 are set up to point to it.
141
                 0518
142
143
144
                 0519
                                     The argument tells how to do the allocation.
                0520
0521
0522
0523
0524
0525
                             FORMAL PARAMETERS:
145
146
                                     ARGLIST.rl.v
                                                          List of information needed to set up the
147
                                                          frame. See BASIC-PLUS-2/VAX Description
148
                                                          of Generated Code for details.
149
                 0526
0527
                                     DATA_RELOC.ra.v Address of the major procedure's contribution to the data PSECT. This is needed so that the
150
151
                 0528
                                                          argument list can be PIC.
152
153
154
155
                 0529
0530
                              IMPLICIT INPUTS:
                 0531
                0532
0533
                                     NONE
156
157
                0534
0535
                              IMPLICIT OUTPUTS:
158
159
                0536
0537
                                     The values of R10 and R9, which point to the automatic
160
                                     storage and the temporary storage, respectively.
                0538
0539
161
162
163
                             ROUTINE VALUE:
                0540
                 0541
164
                                     NONE
                0542
0543
165
166
167
                             COMPLETION CODES:
                 0544
168
                 0545
                                     NONE
169
170
                 0546
                 0547
                             SIDE EFFECTS:
171
                 0548
172
                 0549
                                     Leaves lots of things on the stack for use by the compiled
173
                 0550
                                     BASIC-PLUS-2 code. These things will be removed by
174
                 0551
                                     BASSEND_DFS_R8.
                 0552
0553
175
                        1 !--
176
                 0554
0555
177
178
                                BEGIN
179
                 0556
                 0557
180
                                EXTERNAL REGISTER
                 0558
181
                                     BSF$A_MAJOR_STG : REF BLOCK [O, BYTE] FIELD (BSF$MAJOR_FRAME), BSF$A_MINOR_STG : REF BLOCK [O, BYTE] FIELD (BSF$MINOR_FRAME),
                 0559
182
183
                 0560
                                     BSF$A_TEMP_STG;
184
                 0561
                 0562
0563
185
                                BUILTIN
                                     AP,
FP,
SP;
186
187
                 0564
188
                 0565
```

```
0566
0567
190
                                   MAP
191
                  0568
                                        ARGLIST: REF BLOCK [O, BYTE] FIELD (BAS$INIT_ARGS),
192
193
                  0569
0570
                                        AP : REF VECTOR:
                                                                                                ! caller's arg list
194
195
                                Define local variables as registers. We cannot have any stack locals
196
197
                               since we manipulate the stack pointer in this routine.
                  0574
198
                  0575
                  0576
0577
                                   REGISTER
                                        RETURN ADDRESS, FMP : REF BLOCK [O. BYTE] FIELD (BSFSFCD)
                                                                                                  address to return to
                                                                                                             pointer to FCD
                                        ARRAY_DESC : REF BLOCK [O, BYTE], ARRAY_INDEX;
                                                                                                  pointer to build array descriptors
                                                                                                  index for array modification
                  0581
                               Save return address because we are going to fool with the stack
                  0584
                  0585
                                   RETURN_ADDRESS = ..SP;
                  0586
                             ! Make sure we are passed an argument list we understand.
                  0587
                  0588
                  0589
                  0590
                                   IF (.ARGLIST [BAS$B_IN_V_FCD] NEQ BAS$K_IN_V_FCD) THEN BAS$$SIGNAL (BAS$K_NOTIMP);
214
215
                  0591
                  0592
0593
                             ! Allocate frame control data.
216
217
                  0594
218
219
                  0595
                  0596
                                  SP = .FMP - BSF$K_LENFCDDFS + %UPVAL;
0597
                  0598
                               LOAD Rn (R10)
                  0599
                  0600
                                  BSF$A_MINOR_STG = .SP - 127;
                  0601
                  0602
                               Initialize parts of the frame control data.
                                  FMP [BSF$A_MARK] = 0;
FMP [BSF$A_BASE_R11] = .BSF$A_MAJOR_STG;
FMP [BSF$A_BASE_R10] = .BSF$A_MINOR_STG;
FMP [BSF$B_LEN_FCD] = BSF$K_LENFCDDFS;
FMP [BSF$B_PROT_CODE] = .ARGLIST [BAS$B_IN_PROC_C];
FMP [BSF$W_FCD_FLAGS] = .ARGLIST [BAS$W_IN_FLAGS];
FMP [BSF$A_PROT_ID] = .ARGLIST [BAS$L_IN_PROC_I] + .DATA_RELOC;
FMP [BSF$A_INIT_ARG] = .ARGLIST;
FMD [BSF$A_INIT_ARG] = .ARGLIST;
FMD [BSF$A_INIT_ARG] = .ARGLIST;
                  0604
                  0605
                  0606
                  0607
                  0608
                  0609
                  0610
                  0611
                          22222
                  0612
0613
                                   FMP [BSf$L_INIT_REL] = .DATA_RELOC;
                  0614 0615
                               Allocate numeric scalars. They are all initialized to zero.
                  0616
0617
                                   INCR COUNTER FROM 1 TO .ARGLIST [BASSL_IN_LEN_SC] DO
                  0618
                                        BEGIN
                  0619
                                        SP = .SP - XUPVAL;
                          322
                  0650
                                         .SP = 0:
                  0621
0322
                                        END:
```

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```
0623
0624
0625
0626
0627
0628
0629
Copy formals.
                                 DECR CCUNTER FROM MIN (.ARGLIST [BAS$B_IN_NO_FML], ((.AP [0]) AND 255)) TO 1 DO
                                      SP = .SP - XUPVAL
                                      .SP = .AP [.COUNTER];
                 0631
                                      END;
                 0632
0633
0634
0635
                              Allocate and initialize descriptors.
                                 SP = .SP - .ARGLIST [BAS$L_IN_LEN_DT];
                 0636
                 0637
                 0638
                              Set ARRAY_DESC to point to the space allocated.
                 0639
                 0640
0641
0642
0643
0644
0645
0646
0647
                                 ARRAY_DESC = .SP;
                              Load the space from the temptate and then modify it based
                              on the modification table.
                                 INCR COUNTER FROM 0 TO ((.ARGLIST [BAS$L_IN_LEN_DT]^-2) - 1) DO
                                      BEGIN
                                      ARRAY_DESC [.COUNTER*XUPVAL, 0, XBPVAL, 0] = .((.ARGLIST [BAS$L_IN_DT_TMT]) +
                                      .DATA_RELOC + (.COUNTER * %UPVAL));
                 0650
                                      END:
                 0651
275
                 0652
0653
276
277
278
                              Now modify the descriptors. These are usually array descriptors.
                 0654
                 0655
279
                 0656
0657
                                 INCR COUNTER FROM 0 TO (.ARGLIST [BAS$L_IN_LEN_DM] - 1) DO
280
281
282
283
284
285
286
287
288
                                      BEGIN
                 0658
                                      ARRAY_INDEX = .((.ARGLIST [BAS$L_IN_DT_MOD]) + .DATA_RELOC + (.COUNTER*XUPVAL));
                 0659
                                      BSF$A_MINOR_STG [.ARRAY_INDEX, 0, XBPVAL, 0]
                 0660
                                      = .BSF$A_MINOR_STG [.ARRAY_INDEX, O, %BPVAL, O] + .BSF$A_MINOR_STG;
                 0661
                                      END:
                 0662
0663
0664
0665
                           ! Allocate dynamic string descriptors.
289
290
                 0666
                 0667
                                 INCR COUNTER FROM 1 TO .ARGLIST [BAS$w_IN_NO_DST] DO
291
292
293
294
295
296
297
298
299
300
                 0668
                                      BEGIN
                 0669
                                      SP = .SP - XUPVAL:
                 0670
                                       .SP = 0:
                                                                                           ! Pointer C implies not allocated.
                 0671
                                      SP = .SP - XUPVAL;
                                      BLOCK [.SP, DSC$B_CLASS; O, BYTE] = DSC$K_CLASS_D;
BLOCK [.SP, DSC$B_DTYPE; O, BYTE] = DSC$K_DTYPE_T;
BLOCK [.SP, DSC$W_LENGTH; O, BYTE] = 0; ! length = 0
                 0672
                                                                                                                  dynamic
                 0673
                                                                                                                text
                        BLUCK [.SP, DSCSW_LENGTH; C
BLOCK [.SP, DSCSW_LENGTH; C
END;
FMP [BSF$A_STR_DESC] = .SP;
Allocate fixed string templates.
                 0674
                 0675
                 0676
                 0677
                 0678
```

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358 359

```
VAX-11 Bliss-32 V4.0-742
1-00
                                                                                                                  [BASRTL.SRC]BASINIDFS.B32:1
   303
304
305
                     0680
                     0681
                    0682
0683
                                    INCR COUNTER FROM 1 TO .ARGLIST [BASSW_IN_NO_FST] DO
   306
307
                     0684
                                         SP = .SP - %UPVAL:
   308
309
                     0685
                                         .SP = 0:
                                                                                             ! Pointer O implies not allocated.
                                         SP = .SP - XUPVAL:
                     0686
                                         BLOCK [.SP, DSC$B_CLASS; O, BYTE] = DSC$K_CLASS_S;
BLOCK [.SP, DSC$B_DTYPE; O, BYTE] = DSC$K_DTYPE_T;
BLOCK [.SP, DSC$W_LENGTH; O, BYTE] = 0; ! length = 0
   310
                     0687
                                                                                                                   ! fixed
   311
                     0688
                                                                                                                  ! text
   312
313
                     0689
                     0690
                                         END:
   0691
                    0692
0693
                               ! Allocate numeric array elements. They are all initialized to zero.
                    0694
                    0695
                    0696
                                    INCR COUNTER FROM 1 TO (.ARGLIST [BAS$L_IN_LEN_NA]^-2) DO
                    0697
                    0698
                                         SP = .SP - XUPVAL:
                    0699
                                          .SP = 0:
                    0700
                                         END:
                    0701
                    0702
0703
0704
0705
0706
0707
0708
0709
                                Allocate temporary cells.
                                    IF ((.ARGLIST [BAS$L_IN_NO_TST] NEQ 0) OR (.ARGLIST [BAS$L IN NO NMT] NEQ 0))
                                         BEGIN
                    0710
                                 We must set up R9. First allocate string temporaries.
                    0711
0712
0713
                                         INCR COUNTER FROM 1 TO .ARGLIST [BAS$L_IN_NO_TST] DO
                    0714
0715
                                              BEGIN
                                              SP = .SP - XUPVAL;
                    0716
0717
                                               .SP = 0:
                                                                                             ! Pointer O implies not allocated.
                                              SP = .SP - XUPVAL;
                                              BLOCK [.SP, DSC$B CLASS; 0, BYTE] = DSC$K CLASS D;
BLOCK [.SP, DSC$B DTYPE; 0, BYTE] = DSC$K DTYPE T;
BLOCK [.SP, DSC$W LENGTH; 0, BYTE] = 0; ! length
                    0718
                    0719
                    0720
                    0721
                    0722
0723
                                 Point R9 to the last string descriptor allocated.
                    0725
                    0726
0727
                                         BSF$A_TEMP_STG = .SP;
                    0728
                                 Now allocate numeric temporaries.
                    0729
                    0730
                                         SP = .SP - .ARGLIST [BAS$L_IN_NO_NMT];
                    0731
```

Store R9 in the stack frame for setting up I/O cists.

FMP [BSF\$A_BASE_R9] = .BSF\$A_TEMP_STG;

```
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                   0740
                   0741
                   0742
                   0744
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                   0746
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                   0750
                   0751
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                   0753
                   0754
                   0755
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                   0756
                   0757
380
381
                   0758
382
383
                   0759
                   0760
                   0761
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                   0762
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                   0763
                   0764
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                   0765
                   0766
                   0767
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393
                   0768
                   0769
                   0770
394
395
                   0772
0773
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                   0774
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                   0775
                   0776
400
401
                   0778
402
                   0779
                   0780
404
                   0781
405
406
                   0783
407
                   0784
408
                   0785
409
                   0786
                   0787
410
411
                   0788
412
                   0789
                   0790
414
                   0791
416
                               ! caller.
```

```
Complete frame.
    FMP [BSF$A_BASE_SP] = .SP;
FMP [BSF$A_HAND[ER] = BAS$HANDLER;
! first consistency checks.
    IF (((.AP [0]) AND 255) NEQ .ARGLIST [BAS$B_IN_NO_FML])
    THEN
! The number of arguments is incorrect.
        BEGIN
        IF (((.AP [0]) AND 255) GTRU .ARGLIST [BAS$B_IN_NO_FML])
             BASSSIGNAL (BASSK_TOOMANARG)
        ELSE
             BAS$$SIGNAL (BAS$K_TOOFEWARG);
        END:
    IF (((.fmp [BSf$w_fcd_flags]) and (BSf$m_fcd_rstr)) NEQ 0)
    THEN
        BEGIN
        LOCAL
             STR_DESC_ADDR : REF BLOCK [8, BYTE];
 This procedure has been marked by the compiler as returning a
  string result. Be sure that there is at least one formal, and
 that it is a dynamic string descriptor. If so, null its value.
        IF (.ARGLIST [BAS$B_IN_NO_FML] LSSU 1) THEN BAS$$SIGNAL (BAS$K_TOOFEWARG);
        STR_DESC_ADDR = AP [1]:
        STR_DESC_ADDR = ..STR_DESC_ADDR;
        IF ((.STR_DESC_ADDR [DSC$B_CLASS] NEQU DSC$K_CLASS_D) OR
    (.STR_DESC_ADDR [DSC$B_DTYPE] NEQU DSC$K_DTYPE_T))
        THEN
             BAS$$SIGNAL (BAS$K_ARGDONMAT);
 Null the string. This insures that, if the procedure does not reference
 the string, the function will have the value of the null string.
        STR$FREE1_DX (.STR_DESC_ADDR);
        END:
 Put the return address back on the stack so we can return to the
```

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CE 0007D

MNEGL

#1, COUNTER

						10	3 5-Sep-1 4-Sep-1	984 00:36 984 11:55	:03 VAX-11 Bliss-32 V4.0-742 :07 [BASRTL.SRC]BASINIDFS.B32;1	Page 11 (3)
55		57	10	0 A A 4	11	08000 00082	78 -	BRB ADDL3	8\$ 28(ARGLIST), DATA_RELOC, R5 (R5)[COUNTER], (ARRAY_DESC)[COUNTER] R6, COUNTER, 7\$: 0649
F 2	6	041	,,	6541	DO	00087		MOVL	(R5)[COUNTER], (ARRAY_DESC)[COUNTER]	: 0648
1 2		51 51		01	CE	00080	0):	AOBLSS MNEGL	#1, COUNTER 10\$: 0646 : 0658
55		57 50	24	OF A4	11	00093	95 :	BRB ADDL3	36(ARGLIST), DATA RELOC RS	;
				6541 604A	9F	0009A 0009E		MOVL Pushab	(R5)[COUNTER], ARRAY INDEX (ARRAY INDEX)[BSF\$A MINOR STG]	0660
EC		9E 51 51	20	5A A4	CO	000A1 000A4	10\$:	ADDL2 AOBLSS	(R5)[COUNTER], ARRAY INDEX (ARRAY INDEX)[BSF\$A_MINOR_STG] BSF\$A_MINOR_STG, a(SP)+ 32(ARGLIST), COUNTER, 9\$	0656
		51	20 2 8	A4 50	3 C	000A9 000AD		MOVŽWL CLRL	40 (ARGLIST), R1 COUNTER	0667
		5E		OF	11	000AF	116.	BRB	12\$	
				04 6E	D4	000B4	11\$:	SUBL 2 CLRL	#4, SP (SP)	; 0669 ; 0670
		SE 6E	020E0000	04 8F	00	000B6 000B9		SUBL 2	#4, SP #34471936, (SP)	; 0671 : 0674
ED	EO	50 A3		51 5E	F 3	000B9 000C0 000C4	12\$:	AOBLEQ MOVL	R1, COUNTER, 11\$ SP, -32(FMP)	: 0667 : 0677
		A3 51	2A	A4 50	3C	80008		MÖVZWL CLRL	42(ARGLIST), R1 COUNTER	0682
		£ r		QF	11	000CE	170	BRB	14\$	
		5E		04 6E	D4	00000	13\$:	SUBL 2 CLRL_	#4, SP (SP)	; 0684 ; 0685
		SE 6E	010E0000	04 8F		000D5 000D8		SUBL2 MOVL	#4, SP #17694720, (SP)	; 0686 ; 0689
ED 50	2 C	50 A4	FE	51	F 3	000DF 000E3	145:	AOBLEQ ASHL	R1, COUNTER, 13\$ #-2, 44(ARGLIST), R0	: 0682 : 0696
,,			' -	8F 51	D4	000E9		CLRL	COUNTER	. 0070
		5E		05 04	٢2	000EB	15\$:	BRB SUBL 2	16\$ #4, SP	0698
F 7		51		6E 50	D4 F3	000F0 000F2	165:	CLRL AOBLEG	(SP) RO, COUNTER, 15\$; 0699 ; 0696
			30	A4 05	D 5	000F6 000F9		TSTL BNEQ	48(ARGLIST)	0706
			34	A4 1 F	D5	000FB 000FE		TSTL BEQL	52(ARGLIST) 20\$	
				50	D۷	00100	17\$:	CLRL	COUNTER	0713
		5E		0F 04	11	00102 00104 00107 00109	18\$:	BRB SUBL 2	19\$ #4. SP	0715
		5E		6E 04	04	00107		CLRL SUBL2	(SP) N4. SP	; 0716 ; 0717
EC		5E 6E 50	020E0000 30	8 F A 4	DQ F3	0010C 00113	195:	MOVL Aobleg	#4, SP #34471936, (SP) 48(ARGLIST), COUNTER 18\$: 0720 : 0713
		50 59 5E A3	34	SE A4	D0	00118		MOVL SUBL 2	48(ARGLIST), COUNTER, 18\$ SP, BSF\$A TEMP STG 52(ARGLIST), SP BSF\$A TEMP STG, -20(FMP) SP, -8(FMP) BAS\$HANDLER, (FMP)	0726 0730
	EC	AŞ	74	59	DÖ	0011B 0011F	20\$:	MOVL	BSF\$A_TEMP_STG, -20(FMP)	: 0736
	F B	A3 63	00000000		9E	00123		MOVL MOVAB	BASSHANDLER, (FMP)	: 0740 : 0741
	14	A 4		6Ç 13	DO 9E 91 13	0012E 00132 00134 00136		(MPB Begl	23\$	0746
		7E	000	06	1B 9A	00134		BEQL BLEQU MOVZBL	#BAS\$K_TOOMANARG, -(SP)	0753 0755
		7E	000	04	11 9A	0013A 0013C	214.	BRB MOVZBL	225	0757
	0000000G	00	000	01	fB	00140	225:	CALLS	#BAS\$K_TOOFEWARG, -(SP) #1, BA\$\$\$SIGNAL	. 01)1

BAS\$INIT_DFS 1-005		f 3 16-Sep-1984 00:36:03 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 11:55:07 [BASRTL.SRC]BASINIDFS.B32;1	Page 12 (3)
	37 E6 00000000G 00000000G 00000000G	A3	0761 0774 0776 0777 0779 0780 0782 0788 0795 0796 0798
: 422 0 : 423 0 : 424 0	394 bytes, Routine 0799 1 0800 1 END 0801 1 0802 0 ELUDOM	Base: _BAS\$CODE + 0000	

	PSECT SUMMARY
Name	Bytes Attributes
_BAS\$CODE	394 NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)
:	Library Statistics

file	Total	- Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32:1	9776	6	0	581	00:01.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:BASINIDFS/OBJ=OBJ\$:BASINIDFS MSRC\$:BASINIDFS/UPDATE=(ENH\$:BASINIDFS

G 3 16-Sep-1984 00:36:03 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 11:55:07 [BASRTL.SRC]BASINIDFS.B32:1

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